DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** WIR-006534 Address: 333 Burma Road **Date Inspected:** 13-Apr-2009

City: Oakland, CA 94607

OSM Arrival Time: 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: ZPMC and ABF **CWI Present:** Yes No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** Yes No N/A **Delayed / Cancelled:**

34-0006 **Bridge No: Component:** SAS tower

Summary of Items Observed:

On this date Caltrans OSM Quality Assurance(QA) Inspector, Wai Pau, was present during the times noted above for observations relative to the work being performed.

Bay #10 South and North Tower Shop

South Tower Lift #1:-Caltrans QA Inspector observed two welder performed FCAW repair process on outer corner longitudinal seam weld that connected skin plate A and E. The repair weld area located at elevation 43m to 40.7m diaphragm section. The FCAW was monitored and recorded by ZPMC and ABF QC inspector. Based on Caltrans QA inspector observations, no discrepancies were noted.

South Tower Lift #2:-Caltrans QA Inspector observed five ZPMC workers performed grinding process on the fig lug welds and diaphragm welds. The fig lug welds and diaphragm welds are located at elevation 53m to 80.75m interior diaphragm of skin C and D. The grinding processes are removing and repair the fillet welds that have been rejected by VT inspection. Base on Caltrans observation, no discrepancies were noted.

South Tower Lift #1:-Caltrans QA Inspector observed seven ZPMC workers performed grinding process on the fillet welds of corner diagonal stiffener. The fillet welds are located at elevation 9mm to 40.7m and attached to skin plate C and D. The grinding process is removing the weld profiles prior VT and MT inspection. Base on Caltrans observation, no discrepancies were noted.

Bay #11 East and West Tower Shop



WELDING INSPECTION REPORT

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East Tower Lift#1:- Caltrans QA Inspector observed seven welders performed FCAW process on PJP weld for corner diagonal stiffener that connected skin plate C to D and B to C. The welding located at elevation 9m to 47. 6m diaphragm. The minimum preheat and maximum interpass temperature requirements for FCAW PJP weld are 110C degree and 230 C degree. The FCAW was monitored and recorded by ZPMC and ABF QC inspector. Based on Caltrans QAI observations, no discrepancies were noted.

East Tower Lift #2:-Caltrans QA Inspector observed four ZPMC workers performed grinding process on the fig lug welds and diaphragm welds. The fig lug welds and diaphragm welds are located at elevation 53m to 80.75m interior diaphragm of skin C. The grinding process is removing the weld profiles that have been rejected by VT inspection. Base on Caltrans observation, no discrepancies were noted.

West Tower Lift #2:- Caltrans QA Inspector observed three ZPMC welders in process SMAW welding on inner corner longitudinal seam welds that connected skin plate C to D and D to E. The inner corner longitudinal seam welds will fill up to 30% to secure the skin plate prior the tower relocation. The SMAW was monitored and recorded by ZPMC and ABF QC inspector. Based on Caltrans QA inspector observations, no discrepancies were noted.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

As noted within the report above.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Serge Sinevod 13482570045, who represents the Office of Structural Materials for your project.

Inspected By:	Pau,Wai	Quality Assurance Inspector
Reviewed By:	Clifford, William	QA Reviewer